

This listing of claims will replace all prior versions, and listings, of claims in the application:

### In the Claims

Claim 1 (Currently Amended): A method for producing a desoxyepothilone, which comprises fermentation of *Sorangium cellulosum* ~~an epothilone producing microorganism~~ in the presence of an inhibitor of ~~an epothilone epoxidase~~ the *epoK* gene product.

Claim 2 (original): The method of Claim 1, wherein said desoxyepothilone is epothilone D.

Claim 3 (original): The method of Claim 1, wherein said desoxyepothilone is epothilone C.

Claim 4 (original): The method of Claim 1, wherein said desoxyepothilone is a mixture of epothilone C and epothilone D.

Claim 5 (Currently Amended): The method of Claim 1, wherein said ~~microorganism is *Sorangium cellulosum*~~ inhibitor is a reversible inhibitor.

Claim 6 (original): The method of Claim 1, wherein said inhibitor is 2-methyl-1,2-di-3-pyridyl-1-propanone.

Claim 7 (Currently Amended): The method of Claim 1, wherein said inhibitor is selected from the group consisting of ketoconazole, itraconazole, miconazole, furafylline, ~~sulfaphenazole~~, proadifen, and debrisoquin.

Claims 8-11 (cancelled)

Claim 12 (Withdrawn) A recombinant *Sorangium cellulosum* host cell comprising an *epoK* gene that has been inactivated by mutation that produces epothilone C or epothilone D or both.

Claim 13 (Withdrawn) The host cell of Claim 12 that produces more epothilone C and epothilone D than epothilone A and epothilone B.

Claim 14 (Withdrawn) The host cell of Claim 12 that does not produce epothilone A or epothilone B.

Claim 15 (Withdrawn) The host cell of Claim 12 that produces epothilone D but not epothilone C.

Claim 16 (Withdrawn) The host cell of Claim 12 that produces epothilone C but not epothilone D.